



## Human T-cell receptors, their uses in diagnosis and therapy of diabetes mellitus.

Patent Number: EP0676468

Publication date: 1995-10-11

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Requested Patent:  EP0676468, A3

Application Number: EP19950103785 19950315

Priority Number (s): DE19944408999 19940316

IPC Classification: C12N15/12; C07K14/725; C07K16/28; A61K38/17; A61K39/395; C12N5/10

EC Classification: C07K14/705B12

Equivalents:  DE4408999

### Abstract

New nucleic acid (NA) encoding a section of the CDR3-region of a human T-cell receptor chain has one of the sequences (I)-(VI) or a degenerate sequence having at least 80% homology to them:  
CTAGAGAACACAGGC (I) CTGAGTGAGG CCCCAGATT TGGTGGTGCT ACAAAC (II) GTGACCACTC AGTTTCTGG TGGCTAC AAT (III) AGTAGTGACA GTTAGGCAA TCAGCCC (IV) AGCCAAGAT CGACTGAGGG GTGTGGCAGAT ACG (V) AGCCAAGAGG CCGACATT (VI) The sequence pref. encodes the entire CDR3-region of an alpha -chain of the human T-cell receptor. Also claimed are : (1) vector contg. at least one copy of the NA; (2) cells contg. the NA or vector, (3) polypeptides encoded by the NA, (4) antibodies to the polypeptides of (3), (5) a polypeptide (A) having T-cell characteristics and comprising a two subunits, one from an alpha -chain and the other from a beta -chain of a human T-cell receptor (or derivs.); (6) complex comprising (A) and a peptide (B) presenting HLA mol. of the class DQw1; and (7) T-cells including (A).

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